

Design Data Sheet for Standard Detail Drawing by:

Lanco Concrete Walls, (LA8CT1-11, LA10CT1-11, LA12CT1-12 LA16CT1-11) Circular,
Site Cast Waste Storage Facility

Designer: **David Dorau/Rodney Sommer, PE** 816-421-4232
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Drawings: LA8CT1-11, LA10CT1-11, LA12CT1-12 LA16CT1-11, dated 7-20-04 and sealed on 4-20-07. **These drawings replace previous drawings dated 6/12/94.**

Location: Calculations and drawing were reviewed for conformance with PA Standard 313. Design data are on file in NRCS-PA state office. Review of latest revision was completed in April 2007.

Materials: Reinforced concrete footings, floor slabs, walls, and access pads require Grade 60 steel with Class 4000 air-entrained concrete.

Sizes: 8' high x 7" thick, 50' to 100' diameter
10' high x 8" thick, 50' to 100' diameter
12' high x 9" thick, 50' to 130' diameter
16' high x 10" thick, 50' to 100' diameter

Applications: PA Standard 313 with equivalent fluid pressure of 65 pcf.

Assumptions: Minimum required soil bearing capacities are 1000 psf under floor slab and 2000+110 psf under the footing. Backfill 3 feet above the bottom of the footing is required. Maximum backfill differential around the tank is 4 feet. Design assumes a foundation drain as shown on drawings. Additional wall steel in lieu of access pad is designed for a vehicle surcharge of 15,000 pounds. If larger equipment loads are anticipated near the wall, the alternate equipment access pad must be used.

Concurrence: The State Conservation Engineer concurs in the use of these standard detail drawings.